


a light controller controlling the electricity supplying unit based on a signal from the current sensor and a dimming control signal from an external device;

wherein the electricity supplying unit comprises a transformer including a primary coil and a secondary coil and applies a voltage induced in the secondary coil to the light source;~~The apparatus of claim 2,~~

wherein the electricity supplying unit further comprises:

a switching unit switching an input voltage from an external device under the control of the light controller; and

an oscillator generating an AC voltage based on the input voltage from the switching unit and supplies the generated AC voltage to the primary coil of the transformer;

wherein the current sensor is connected to the oscillator and senses a current in the oscillator.

6. (Currently Amended) The apparatus of claim 5, wherein the current sensor comprises a capacitor and a diode connected in parallel between the electricity supplying unit and a predetermined voltage and a voltage divider connected to the capacitor and the diode and to the light controller~~is connected to the oscillator and senses a current in the oscillator.~~

7. (Currently Amended) The apparatus of claim 5, wherein the light source includes a fluorescent lamp~~current sensor is connected to the secondary coil of the transformer and senses a current in the secondary coil of the transformer.~~

8. (Original) The apparatus of claim 5, wherein the light controller controls the switching unit in a pulse width modulation manner based on the dimming control signal and the signal from the current sensor.

9. (Currently Amended) The apparatus of claim [6]5, wherein the light controller determines an overcurrent in the light source on the basis of the signal from the current sensor and turns on/off the switching unit based on the determination of the overcurrent.

10. (Original) The apparatus of claim 1, wherein the current sensor comprises a capacitor and a diode connected in parallel between the electricity supplying unit and a predetermined voltage and a voltage divider connected to the capacitor and the diode and to and the light controller.

11. (Original) The apparatus of claim 1, wherein the light source includes a fluorescent lamp.